

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

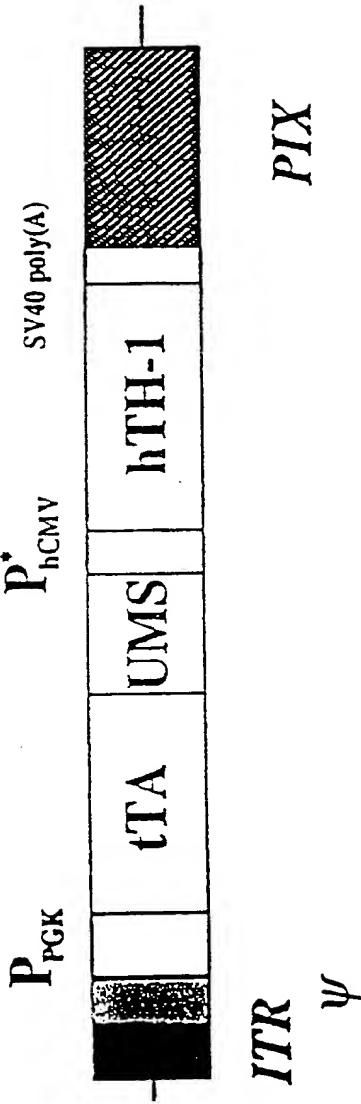


FIGURE 1

2/7

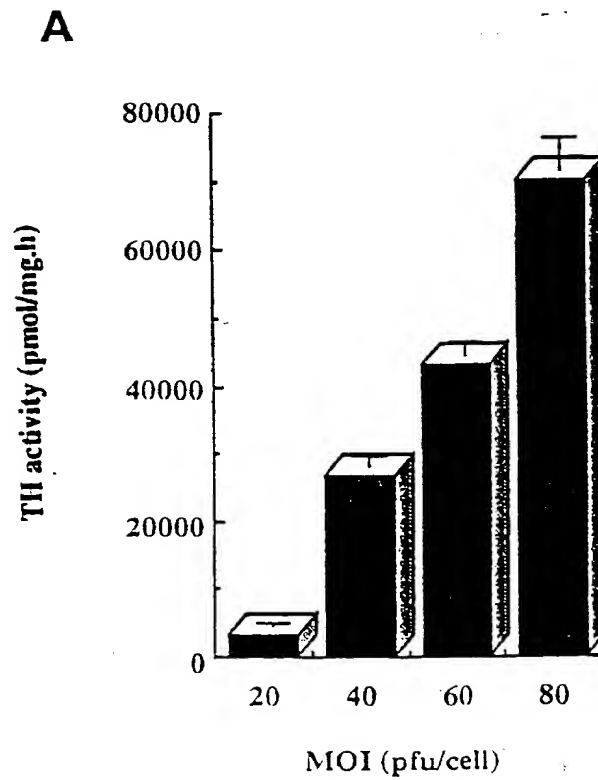


Figure 2A



Figure 2B

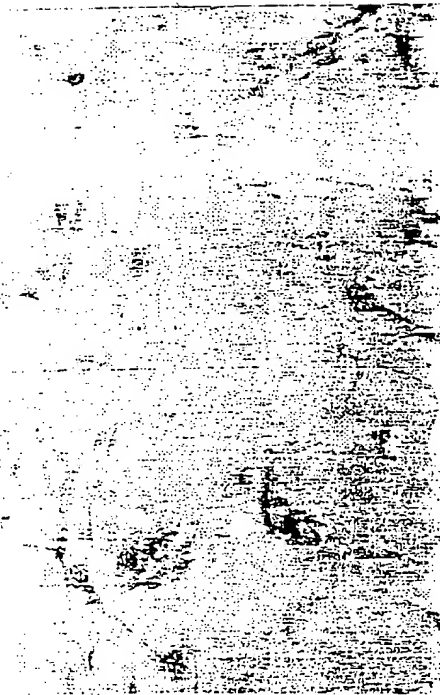


Figure 2C

Figure 3C

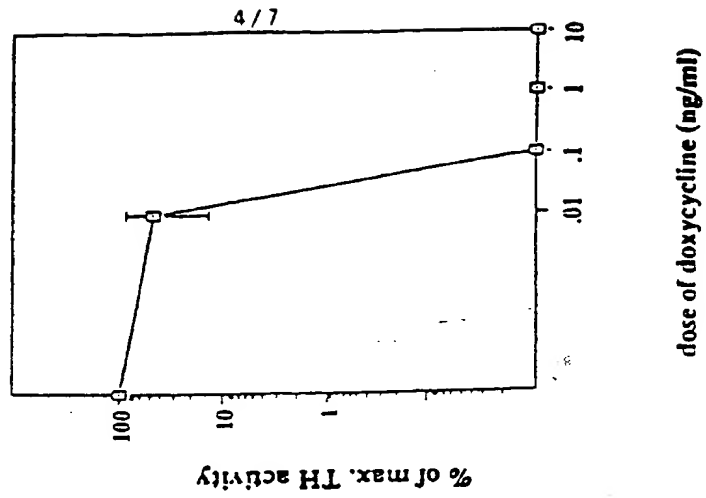


Figure 3B

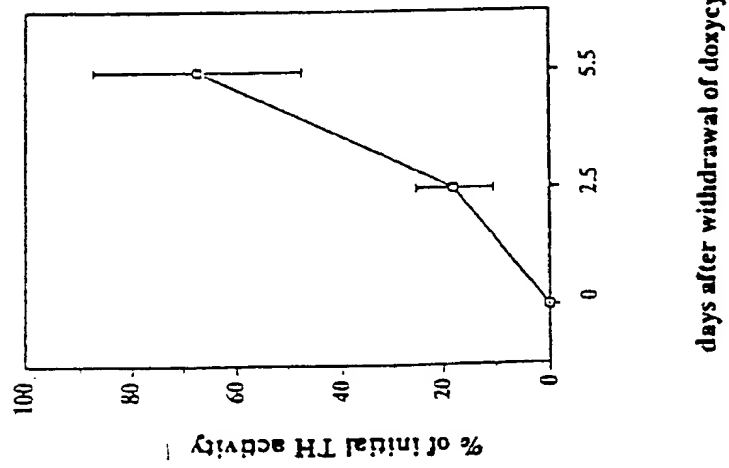
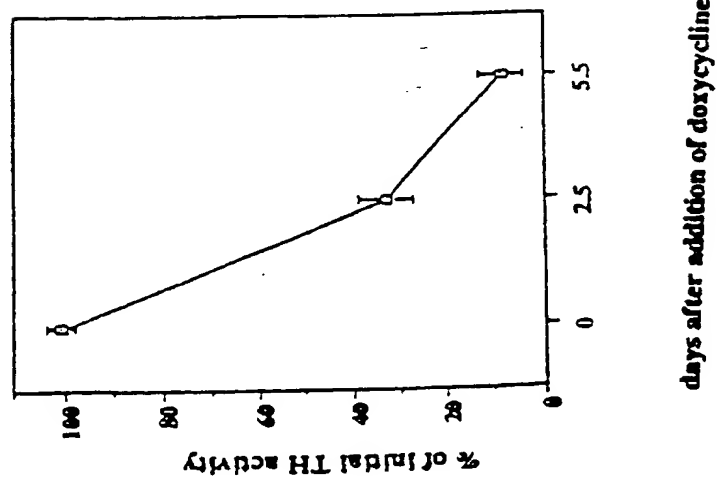


Figure 3A



5/7



Figure 4A

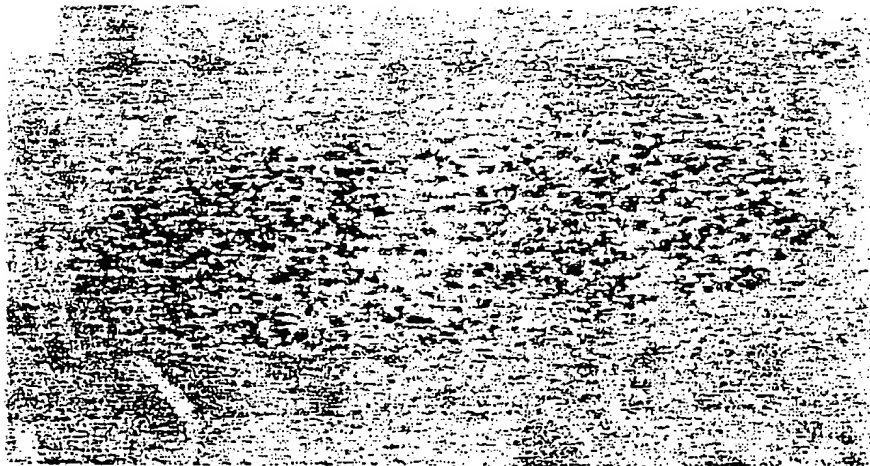


Figure 4B

6/7



Figure 5A



Figure 5B

1	CTCGAGGAGC	TCGAATTTCAT	ATGCTCTAGAT	TAGAT'AAAAG	TAAAGTGATT	AACAGCGCAT	TAGAGCTGCT	TAATGAGGTC	80
81	GGAATCGAAG	GTTTAAACAAC	CCG'AAACTC	GCCCAGAGC	T'AGGTG'PAGA	GCAGCCTACA	T'TGTAT'TGGC	A'GT'AAAAA	160
161	TAAAGCGGCT	T'TGCTCGACG	CCTTAGCCAT	TGAGATG'TA	GATAGGCGACC	ATACTCACTT	T'TGCCCT'TT'A	GNAGGGAAA	240
241	GCTGGCAAGA	T'T'TT'TACGT	AATAACGCTA	ANAAGT'TTAG	A'TGTGCT'TTA	CTAAGTCAATC	GCATGAGGC	AAAAGTACAT	320
321	TTAGGTACAC	GGCCTACAGA	AAAACAGTAT	GAAACTCTCG	AAAATCAAT	AGCCT'TT'TA	TGCCAACAAAG	G'TT'TTCACT	400
401	AGAGANTGCA	T'TA'TA'IGCAC	TCAGCGCTGT	GGGCA'TT'T	ACTT'TAGGT	GCATAT'TGGA	AGATCAAGAG	CATCAAGTCG	480
481	CTAAAGAAGA	AAGGGAAACA	CCTACTACTG	ATAGTATGCC	GCCAT'TATTA	CGACAAGCTA	T'CGAAT'TAT	TGATCACCAA	560
561	GGTGCAGAGC	CAGCCTTCTT	ATTTCGGCTT	GAAATGATCA	TATGCGGATT	AGAAAAACAA	CTTAAATGTG	AAAGTGGTC	640
641	CGGTACAGC	CGCGCGGTA	CGRAAAACAA	T'TACGGTCT	ACCATCGAGG	GCCTGCTCGA	TC'TCCCGGAC	GACGACGCC	720
721	CCGAAGAGGC	GGGCTGGCG	GC'TCCGGCC	TGTCCTT'TCT	CCCCCGGGA	CACACGGCA	GACTGTGCGAC	GGCCCCCCCG	800
801	ACCGATGTCA	GCCTGGGGGA	CGAGCTCCAC	T'TAGACGGCG	AGGACGTGGC	GATGGCGCAT	GCCGACGCGC	TAGACGATTT	880
881	CGATCTGGAC	ATGTTGGGGG	ACGGGATTC	CCCGGTCCG	GGAT'TTACCC	CCCACGACTC	CGCCCCCTAC	GGCGCTCTGG	960
961	ATATGGCCGA	CTTCAGATT	GAGCAGATGT	T'TACCGATGC	CC'TTGGAA'T	GACGAGTACG	GTGGGTAGGG	GGCGCGAGGA	1040
1041	TCTCAGATT	GTGCATACAC	AGTGACTCAT	ACT'TTCACCA	ATACTT'TGCA	T'TT'TGGATAA	ATACTTAGACA	ACTT'TAGAAG	1120
1121	TGAATTA'TT	ATGAGGTGT	CTTAAAT'TA	AAAA'TTACAA	ACTAATTAAT	CACAT'TGTAA	TGTA'TT'TGT	GTGATACCCA	1200
1201	GAGGT'TTAA	GCAACCTAT	ACTCTTATGC	TCC'TGAAAGTC	CACAA'TTCAAC	AGTCCTGAAC	TATAATCTTA	TCTT'TGTGAT	1280
1281	TGCTGAGCAA	A'TTGCAGTA	TAA'TTTCAGT	GC'TT'TTAAAT	T'TTGTCTCTGC	T'TACTATTTT	CCTT'TT'TAT	T'TGGGT'TTGA	1360
1361	TATCGGTGCA	CAGAA'TGGG	CTTCTAT'TAA	AAATAT'TCCAT	GGCTTACAT	T'TTAAATGTTT	TGTTCTCTTA	ATAT'GTTCAA	1440
1441	AGCTACTCAA	CTT'TTAT'TCC	CGAAAAATGT	T'TACTT'TTAA	TAT'TCTAAIT	TC'TTACATAA	AGCAT'TGAGG	TGCTAACAAT	1520
1521	TATATAC'TAT	GTACAAGATG	GCAGACTTAA	TCAATATCAT	CCATCAAGTA	GAAACCTGGA	GT'TTGGTGAA	CTT'TGAGTTG	1600
1601	T'TTATATGTC	TCTCCCTTAT	TGTC'TTCTCA	AAACCTG'TGA	T'TCTGAAGTC	AAAGGGACAC	AGCTGTCACA	TGAAAAAGTGA	1680
1681	TCACTTATCA	CCTGTATGCG	TAAACACCT	TACCAAGCAG	CTAAGAGGAG	TAACT'CCTAG	CCACTT'TGAG	AAACGTTT'TT	1760
1761	GAATAAACAG	AGCAAGGCTC	TTCGCCCATTC	TCCCAAGAGAT	ATAGCATAAA	ACTGAGCGCA	T'TT'TTATATA	ACAAAAAAGG	1840
1841	AGGAATG'TGT	GGT'TGATGG	CCAGACCCCTG	AA'TT'TGAGTT	CAGCATCTGC	T'TT'TCCCATAT	TATAGATGGG	TACCAGTGAT	1920
1921	TCTGAGCCAT	GTCTATTTCT	CCTGACTT'TT	CCTCTGT'TTT	CCCACGCTTG	CTGATATTTA	CAGCCGTGGT	CATCACAATC	2000
2001	ACCTT'TG'TTC	C'TTCTTCTCT	TCCCTCCAACT	CTGCA'TT'AAA	T'TCCAGGAAC	T'TGCTT'TCTG	TGAAGTCTGA	G'TT'TTACCCT	2080
2081	CCCTATCACT	GATAGAGAAA	AGTGAAGTGC	GAGT'TTACCA	CTCCCTATCA	GTGA'TAGAGA	AAAGTGAAG	TCGAGT'TTAC	2160
2161	CAC'TCCCTAT	CAGT'GATAGA	GAAAAAGTGA	AGTCGAGT'TT	ACCAC'TCCCT	ATCAGTGA'A	GAGAAAAAGT	AAAGTTCGAGT	2240
2241	T'TACCAC'JCC	CTATTCAGTGA	TAGAGAAAAAG	TGAAGATCGA	G'TT'TTACCCT	CCC'TATCAGT	GATAGAGAAA	AGTGAAGTCT	2320
2321	GAGT'TTACCA	CTCCCTATCA	GTGATAGAGA	ANAAGTGAAG	TCGAGCTCGG	TACCCGGGTC	GAGT'AGGCGT	GTACCGTGGG	2400
2401	AGGCCTATAT	AAGCAGAGCT	CGT'TTAGTGA	ACCGTCAAGT	CGCCTGGAGA	CGCCATCCAC	GCTG'TT'TTGA	CCTCCATAGA	2480
2481	AGACACCGGG	ACCGATCCAG	CC						2502